

BEAM POWER AMPLIFIER

MINIATURE TYPE

	GENERAL DATA
Electrical:	
Heater, for Unipotentia Voltage Current Direct Interelectrode Components (Approx., without extern Grid No.1 to Plate	. 12.6 ac or dc volt . 0.225 am apacitances wal shield): μμ
Input	. 8.2
Mechanical:	
Maximum Overall Length Maximum Seated Length. Length, Base Seat to Bu Maximum Diameter Bulb	An
Pin 1-Grid No.1	Pin 4 - Heater
Pin 2-Grid No.3,	Pin 5- Plate
Cathode	Pin 6-Grid No.2
Pin 3 - Heater	Pin 7-Grid No.1
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AF POWE	R AMPLIFIER - Class A
Maximum Ratings, Design-	•
PLATE VOLTAGE	AGE
Heater negative with	
Heater positive with BULB TEMPERATURE (At ho	
DULD TEMPERATURE (AT 110	on bulb surface) 250 max.
Typical Operation and C	haracteriatios
Plate Voltage	
Grid-No.2 Voltage Grid-No.1 (Control-	
Grid) Voltage	e8.5 -12.5 volt
Peak AF Grid-No.1 Volta	ge 8.5 12.5 volt
Zero-Signal Plate Curre	
MaxSignal Plate Curre	nt 30 47 m
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AUG.1, 1953

TENTATIVE DATA 1

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY



BEAM POWER AMPLIFIER

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Zero-Signal Grid-No.2			l
Current (Approx.) 3	4.5	ma	l
MaxSignal Grid-No.2	, , ,		
Current (Approx.) 4	7	mai	
Plate Resistance (Approx.) 58000	52000	ohms	l
Transconductance 3700	4100	μπhos	
Load Resistance 5500	5000	ohms	
Total Harmonic Distortion 8	8	per cent	
Max.—Signal Power Output 2.0	4.5	watts	
Maximum Circuit Values:			İ
			l
Grid-No.1-Circuit Resistance: For fixed bias	0.1 max.		
For cathode bias	0.1 max.		
Tot cathode bias	U.J IIIAX.	megonin	
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AF POWER AMPLIFIER - Class A	B _l		
Maximum Ratings, Design-Center Values:			İ
PLATE VOLTAGE	250 max	. volts	
GRID-No.2 (SCREEN) VOLTAGE	250 max		
PLATE DISSIPATION	12 max		
GRID-No.2 INPUT	2 max		
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode .	90 max	volts	
Heater positive with respect to cathode .	90 max	volts	
BULB TEMPERATURE (At hottest point			
on bulb surface)	250 max	• ℃	
Typical Operation:			
Unless otherwise indicated, values are	for a tw	has	
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Plate Voltage	250	volts	
Grid-No.2 Voltage	250	volts volts	
Grid-No.1 (Control-Grid) Voltage#	-15 30	volts	
Peak AF Grid-No.1-to-Grid-No.1 Voltage Zero-Signal Plate Current	70	ma	
Max.—Signal Plate Current	70 79	ma	İ
Zero-Signal Grid-No.2 Current (Approx.)	5	ma	İ
Max.—Signal Grid—No.2 Current (Approx.)	13	ma	İ
Plate Resistance (Approx. per tube)		ohms	İ
Transconductance (Per tube)		<i>µ</i> mhos	
Effective Load Resistance (Plate to plate) .	10000	ohms	- .
Total Harmonic Distortion	5	per cent	İ
Max.—Signal Power Output	10	watts	1
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High ambient temperature and shielding may neces operating dissipation. When tube shields are use	d, it is adv	isable to	ĺ
paint the inside and outside surfaces of the tube and to provide ventilation slots to reduce operat	e shield a c	uli Diacki	
and to provide ventriation store to reduce operat	y somporar		
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Maximum Circuit Values Per Tube:
Grid-No.1-Circuit Resistance:#
For fixed bias 0.1 max. mego For cathode bias 0.5 max. mego
If The type of input coupling used should not introduce too much resistar in the grid-No.1 circuit. Transformer- or impedance-coupling device are recommended.
If the grid-No.1-circuit resistance is common to two tubes, the incated maximum values per tube should be halved.
Curves shown under Type 6V6 also apply to 12AQ5
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MAY 3, 1954